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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/606,189	CONTI, PATRICK				
Office Action Summary	Examiner	Art Unit				
•	Zhiyu Lu	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. hely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 M	<u>ay 2006</u> .					
2a)⊠ This action is FINAL . 2b)□ This	This action is FINAL . 2b) ☐ This action is non-final.					
· 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) <u>9-16,18-24,26-34 and 36-40</u> is/are pe 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>9-16,18-24,26-34 and 36-40</u> is/are rej 7) ☐ Claim(s) is/are objected to.	vn from consideration.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom Application (i TO-TOE)				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 05/22/2006 have been fully considered but they are not persuasive.

Regarding claim 9, 15, 23 and 33, Applicant has argued that there is no motivation to modify Tamura's invention to include switching means for switching one of a plurality of RF channels. However, Tamura's invention is used in radio communication apparatus (paragraph 0116). And Clifton's invention is a radio communication apparatus equipped multi-band capability with antenna switch. Thus in view of Clifton, it is obvious to equip the switching apparatus of Tamura with more transmit/receive means, in order to make the apparatus a multi-mode apparatus.

Applicant has also argued that there is no motivation to modify the respective control modules in Tamura's invention so that a first conducting terminal of control transistor Q1 is connected to the anode of PIN diode D1, while the first conducting terminal also forms a common node between an intersection of an anode of a PN diode formed by the control terminal and the conducting terminal of the control transistor, and a corresponding parasitic PN diode.

First, Tamura already disclose a first conducting terminal of control transistor (Q1 of Fig. 11C) is connected to the anode of PIN diode (D1 of Fig. 11C). Ashar et al. teach using lateral transistor for low-voltage and fast-switching application (column 5 lines 12-29). Ogawa teaches an equivalent of a transistor formed by two diodes, where a PN diode (C10 of Fig. 3) formed by the transistor is in connection with a corresponding parasitic PN diode (C20 of Fig. 3). Though Tamura does not expressly disclose the structure of the control transistor, Ashar et al. and Ogawa

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teach the transistor structure, which is commonly known to one of skill in the art as equivalent and obvious for modification.

Therefore, the combination of Tamura, Clifton, Ashar et al., and Ogawa teach the limitations of the argued claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 9-14, 18, 26 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamura (US2002/0180510) in view of Clifton (US2003/0001787), Ashar et al. (US Patent#3840886) and Ogawa (US Patent#4386327).

Regarding claim 9, Tamura teaches a radio-frequency (RF) switching device (100 of Fig. 1) comprising:

- a) an input/output terminal (101 of Fig. 1);
- b) a plurality of RF channels (102 and 103 of Fig. 1) connected to said input/output terminal (paragraph 0031); and
- c) switching means for selecting one of said plurality of RF channels based upon a switching control signal (abstract), said switching means comprising

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a respective control module (Fig. 11C) connected to each RF channel (302 of Fig. 11C), each control module comprising

a control input (CONT of Fig. 11C) for receiving the switching control signal, a PIN diode (D1 of Fig. 11C) having a cathode connected to said input/output terminal, and an anode, and a control transistor (Q1 of Fig. 11C) comprising a control terminal connected to

said control input (CONT of Fig. 11C), and a first conducting terminal connected

to the anode of said PIN diode (D1 of Fig. 11C),

But, Tamura does not expressly disclose the amount of RF channel selection in term of plurality
and the first conducting terminal forming a common node between an anode of a PN diode

formed by the control terminal and the first conducting terminal of said control transistor and a

corresponding parasitic PN diode.

Clifton teaches the limitation of a frequency-switching device having a plurality of frequency channels, which would have been obvious to one of ordinary skill in the art to put more than two RF channels with respective control modules.

Ashar et al. teach the limitation of using lateral transistor for low-voltage and fast-switching application (column 5 lines 12-29), which would have been obvious to one of ordinary skill in the art at the time the invention was made to use lateral transistor for control transistor, in order to have low-voltage and fast-switching performance.

Ogawa teaches the limitation of an equivalent of a transistor formed by two diodes (Q20 of Fig. 4, column 3 lines 28-39), which means the control transistor of Tamura is recognized as an equivalent two-diode circuit, which would have been obvious to one of ordinary skill in the art to

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recognize that the first conducting terminal forming a common node between an anode of a PN diode (C10 of Fig. 4) formed by the control terminal and the first conducting terminal of said control transistor and a corresponding parasitic PN diode (C20 of Fig. 4) with use lateral transistor taught by Ashar et al. for low-voltage application.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the switching device having more than two RF switching channels taught by Clifton and using lateral transistor taught by Ashar et al. and forming equivalent transistor structure taught by Ogawa into the RF switching device of Tamura, in order to provide a plurality of RF frequencies switching with low-voltage and fast-switching performance.

Regarding claim 10, Tamura, Clifton, Ashar et al. and Ogawa teach the limitation of claim 9.

Tamura teaches the limitation of control transistor comprises a NPN transistor and the control terminal forms the base and the first conducting terminal forms the emitter (Q1 of Fig. 11C), but Tamura, Clifton and Ogawa do not expressly disclose the limitation of control transistor comprises a lateral PNP transistor, and the control terminal forms the base and the first conducting terminal forms the collector of said lateral.

Ashar et al. teach the limitation of using lateral PNP transistor for low-voltage and fast-switching application (column 1 line 32 to column 2 line 3, column 5 lines 12-29).

At the time the invention was made, it would have been to a person of ordinary skill in the art to choose using either PNP transistor or NPN transistor as shown by Ashar et al. Applicant has not disclosed that using a PNP transistor provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected

Applicant's invention to perform equally well with switching circuitry using NPN transistor because they perform exactly the same except operating with opposite polarities. Thus, it would have been obvious to one of ordinary skill in the art to modify the NPN transistor to obtain the invention as specified in the claim.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate using lateral PNP transistor taught by Ashar et al. into the modified RF switching device, remote terminal and method of Tamura and Clifton, in order to obtain low-voltage and faster switching in performance.

Regarding claim 11, Tamura, Clifton, Ashar et al. and Ogawa teach the limitation of claim 9. Clifton also teaches the limitation of further comprising a substrate, and wherein the switching circuit is formed therein so that the RF switching device is an integrated circuit (paragraph 0036).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the switching circuit of the modified RF switching device of Tamura, Ashar et al. and Ogawa into integrated circuit taught by Clifton, in order to reduce the size of the circuitry.

Regarding claim 12, Tamura, Clifton, Ashar et al. and Ogawa teach the limitation of claim 9. Clifton also teaches the limitation of plurality of RF channels comprise channels dedicated to transmission and channels dedicated to reception (Fig. 2).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate plurality of frequency channels dedicated to transmission and reception taught by Clifton into the modified RF switching device of Tamura, Ashar et al. and Ogawa, in order to provide plurality of frequency channels as a transceiver.

Regarding claim 13, Tamura, Clifton, Ashar et al. and Ogawa teach the limitation of claim 12. Clifton also teaches the limitation of dedicated channels support different transmission standards operating at different frequencies (paragraph 0045).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate supporting different transmission standards taught by Clifton into the modified RF switching device of Tamura, Ashar et al. and Ogawa, in order to provide different transmission standard services.

Regarding claim 14, Tamura, Clifton, Ashar et al. and Ogawa teach the limitation of claim13. Clifton also teaches the limitation of the different transmission standards comprise GSM, PCS, and WCDMA (paragraph 0045).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate supporting different popular transmission standards taught by Clifton into the modified RF switching device of Tamura, Ashar et al. and Ogawa, in order to provide different popular transmission standard services.

Regarding claims 18, 26, and 36, Tamura, Clifton and Ogawa teach the limitations of claims 15, 23, and 33.

Tamura teaches the limitation of control transistor comprises a NPN transistor and the control terminal forms the base and the first conducting terminal forms the emitter (Q1 of Fig. 11C), but Tamura, Clifton and Ogawa do not expressly disclose the limitation of control transistor comprises a lateral PNP transistor, and the control terminal forms the base and the first conducting terminal forms the collector of said lateral.

Ashar et al. teach the limitation of using lateral PNP transistor for low-voltage and fast-switching application (column 1 line 32 to column 2 line 3, column 5 lines 12-29).

At the time the invention was made, it would have been to a person of ordinary skill in the art to choose using either PNP transistor or NPN transistor as shown by Ashar et al. Applicant has not disclosed that using a PNP transistor provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with switching circuitry using NPN transistor because they perform exactly the same except operating with opposite polarities. Thus, it would have been obvious to one of ordinary skill in the art to modify the NPN transistor to obtain the invention as specified in the claim.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate using lateral PNP transistor taught by Ashar et al. into the modified RF switching device, remote terminal and method of Tamura, Clifton, and Ogawa, in order to obtain low-voltage and faster switching in performance.

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3. Claims 15-16, 19-24, 27-34, and 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamura (US2002/0180510) in view of Clifton (US2003/0001787) and Ogawa (US Patent#4386327).

Regarding claim 15, Tamura teaches a radio-frequency (RF) switching device comprising:

- a) an input/output terminal (101 of Fig. 1);
- b) a plurality of RF channels (102 and 103 of Fig. 1) connected to said input/output terminal; and
- c) a switching circuit (100 of Fig. 1, 402 of Fig. 4) for selecting one of said plurality of RF channels based upon a switching control signal, said switching circuit comprising:

a plurality of control modules (Fig. 11C) connected to said plurality of RF channels (102 and 103 of Fig. 1), each control module comprising:

a diode (D1 of Figs. 1 and 11C) having a cathode connected to said input/output terminal, and an anode, and

a control transistor (Q1 of Figs. 1 and 11C) comprising a control terminal for receiving the switching control signal (CONT of Fig. 11C), and a first conducting terminal connected to the anode of said diode (Fig. 11C).

But, Tamura does not expressly disclose the amount of RF channel selection in term of plurality, and the first conducting terminal forming a common node between an anode of a diode formed by the control terminal and the first conducting terminal of said control transistor, and a corresponding parasitic diode.

Clifton teaches the limitation of a frequency-switching device having a plurality of frequency channels, which would have been obvious to one of ordinary skill in the art to put more than two RF channels with respective control modules in order to provide a plurality of RF frequencies switching.

Ogawa teaches the limitation of an equivalent of a transistor formed by two diodes (Q20 of Fig. 4, column 3 lines 28-39), which means the control transistor of Tamura is recognized as an equivalent two-diode circuit, which would have been obvious to one of ordinary skill in the art to recognize that the first conducting terminal forming a common node between an anode of a PN diode (C10 of Fig. 4) formed by the control terminal and the first conducting terminal of said control transistor and a corresponding parasitic PN diode (C20 of Fig. 4).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate having more than two RF switching channels taught by Clifton and transistor structure of Ogawa into the RF switching device of Tamura, in order to provide a plurality of RF frequencies switching.

Regarding claim 23, Tamura teaches a remote terminal for operating in a wireless communication system (paragraph 0001) and comprising:

- a) an antenna (401 of Fig. 4);
- b) a plurality of RF channels (409 of Fig. 4) connected to said antenna; and
- c) a switching circuit (100 of Fig. 1, 402 of Fig. 4) for selecting one of said plurality of RF channels based upon a switching control signal, said switching circuit comprising:

a plurality of control modules (Fig. 11C) connected to said plurality of RF channels (102 and 103 of Fig. 1), each control module comprising:

a diode (D1 of Figs. 1 and 11C) having a cathode connected to said antenna, and an anode, and

a control transistor (Q1 of Figs. 1 and 11C) comprising a control terminal for receiving the switching control signal (CONT of Fig. 11C), and a first conducting terminal connected to the anode of said diode (Fig. 11C).

But, Tamura does not expressly disclose the amount of RF channel selection in term of plurality, and the first conducting terminal forming a common node between an anode of a diode formed by the control terminal and the first conducting terminal of said control transistor, and a corresponding parasitic diode.

Clifton teaches the limitation of a frequency-switching device having a plurality of frequency channels, which would have been obvious to one of ordinary skill in the art to put more than two RF channels with respective control modules, in order to provide a plurality of RF frequencies switching.

Ogawa teaches the limitation of an equivalent of a transistor formed by two diodes (Q20 of Fig. 4, column 3 lines 28-39), which means the control transistor of Tamura is recognized as an equivalent two-diode circuit, which would have been obvious to one of ordinary skill in the art to recognize that the first conducting terminal forming a common node between an anode of a PN diode (C10 of Fig. 4) formed by the control terminal and the first conducting terminal of said control transistor and a corresponding parasitic PN diode (C20 of Fig. 4).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate having more than two RF switching channels taught by Clifton and transistor structure of Ogawa into the remote terminal of Tamura, in order to provide a plurality of RF frequencies switching.

Regarding claim 33, Tamura teaches a method for making a radio-frequency (RF) switching device (abstract) comprising:

- a) connecting a plurality of RF channels (102 and 103 of Fig. 1) to an input/output terminal (101 of Fig. 1); and
- b) connecting a switching circuit (inherent) to the plurality of RF channels for selecting one of the RF channels based upon a switching control signal (CONT of Fig. 11C), the switching circuit comprising a plurality of control modules (Fig. 11C) connected to the plurality of RF channels, each control module comprising:

a diode (D1 of Figs. 1 and 11C) having a cathode connected to the input/output terminal (101 of Fig. 1), and an anode, and

a control transistor (Q1 of Figs. 1 and 11C) comprising a control terminal (CONT of Fig. 11C) for receiving the switching control signal, and a first conducting terminal connected to the anode of the diode (Fig. 11C).

But, Tamura does not expressly disclose the amount of RF channel selection in term of plurality, and the first conducting terminal forming a common node between an anode of a diode formed by the control terminal and the first conducting terminal of said control transistor, and a corresponding parasitic diode.

Clifton teaches the limitation of a frequency-switching device having a plurality of frequency channels, which would have been obvious to one of ordinary skill in the art to put more than two RF channels with respective control modules, in order to provide a plurality of RF frequencies switching.

Ogawa teaches the limitation of an equivalent of a transistor formed by two diodes (Q20 of Fig. 4, column 3 lines 28-39), which means the control transistor of Tamura is recognized as an equivalent two-diode circuit, which would have been obvious to one of ordinary skill in the art to recognize that the first conducting terminal forming a common node between an anode of a PN diode (C10 of Fig. 4) formed by the control terminal and the first conducting terminal of said control transistor and a corresponding parasitic PN diode (C20 of Fig. 4).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate having more than two RF switching channels taught by Clifton and transistor structure of Ogawa into the method of Tamura, in order to provide a plurality of RF frequencies switching.

Regarding claims 16, 24 and 34, Tamura, Clifton, and Ogawa teach the limitations of claims 15, 23 and 33.

Tamura also teaches the limitation of the diode comprises a PIN diode (abstract).

Regarding claims 19, 27 and 37, Tamura, Clifton, and Ogawa teach the limitations of claims 15, 23 and 33.

Clifton also teaches the limitation of further comprising a substrate, and wherein the switching circuit is formed therein so that the RF switching device is an integrated circuit (paragraph 0036).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the switching circuit of the RF switching device, remote terminal and method of Tamura into integrated circuit taught by Clifton and Ogawa, in order to reduce the size of the circuitry.

Regarding claims 20, 28 and 38, Tamura, Clifton, and Ogawa teach the limitations of claims 15, 23 and 33.

Clifton also teaches the limitation of plurality of RF channels comprise channels dedicated to transmission and channels dedicated to reception (Fig. 2).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate plurality of frequency channels dedicated to transmission and reception taught by Clifton into the RF switching device, remote terminal and method of Tamura and Ogawa, in order to provide plurality of frequency channels as a transceiver.

Regarding claims 21, 29 and 39, Tamura, Clifton, and Ogawa teach the limitations of claims 20, 28 and 28.

Clifton also teaches the limitation of dedicated channels support different transmission standards operating at different frequencies (paragraph 0045).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate supporting different transmission standards taught by Clifton into the RF switching device, remote terminal and method of Tamura and Ogawa, in order to provide different transmission standard services.

Regarding claims 22, 30 and 40, Tamura, Clifton, and Ogawa teach the limitations of claims 22, 29 and 39.

Clifton also teaches the limitation of the different transmission standards comprise GSM, PCS, and WCDMA (paragraph 0045).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate supporting different popular transmission standards taught by Clifton into the RF switching device, remote terminal and method of Tamura and Ogawa, in order to provide different popular transmission standard services.

Regarding claim 31, Tamura, Clifton, and Ogawa teach the limitation of claim 23.

Clifton also teaches the limitation of antenna, said plurality of RF channels and said switching circuit are configured so that the remote terminal is a mobile cellular telephone (paragraph 0045).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate hardware being configured to work in a cellular telephone taught by Clifton into the remote terminal of Tamura and Ogawa, in order to provide cellular phone service.

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Regarding claim 32, Tamura, Clifton, and Ogawa teach the limitation of claim 23.

Clifton also teaches the limitation of hardware being used in cellular handset (paragraph 0045), where a processor for providing the switching signal to said switching circuit is inherited.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate processor in the terminal taught by Clifton into the remote terminal of Tamura and Ogawa, in order to provide switching signal to the RF switching circuit.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhiyu Lu whose telephone number is (571) 272-2837. The examiner can normally be reached on Weekdays: 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vuong Quochien can be reached on (571) 272-7902. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zhiyu Lu July 26, 2006 7/

QUOCHIEN B. VUONG PRIMARY EXAMINER

Shorthen In always 8/7/06